

Fig. 1

NL1:

GGCTCCTCATCTGGAACACACCTCGGGTCACCCCCGACAACGGTGGTGGGAGGGAGAGCGGC	60
CTCCTCCTCCCTGGTGGGGCCTGTCTGGGTGAAGCCCCTCTGTTCCGAGGGATCGTCCA	120
ACCCCCAGCCGGGTGCTCCGAGCCATGGCCGACACCATCTCGGCAGCGGAAATGATCAG	180
M A D T I F G S G N D Q 12	
TGGGTTTCCCCAATGACCGGCAGCTTGCCCTCGAGCCAAGCTGCAGACGGGCTGGTCC	240
W V C P N D R Q L A L R A K L Q T G W S 32	
GTGCACACCTACCAGACGGAGAACAGAGGGAGGAAGCAGCACCTCAGCCGGCGGAGGTG	300
V H T Y Q T E K Q R R K Q H L S P A E V 52	
GAGGCCATCCTGCAGGTACCCAGAGGGCAGAGCGGCTCGACGTCCCTGGAGCAGCAGAGA	360
E A I L Q V I Q R A E R L D V L E Q Q R 72	
ATCGGGCGGCTGGTGGAGCGGCTGGAGACCATGAGGCGGAATGTGATGGGAAACGGCCTG	420
I G R L V E R L E T M R R N V M G N G L 92	
TCCCAGTGTCTGCTCTGCGGGAGGTGCTGGCTTCCCTGGCAGCTCGTCGGTGTCTGC	480
S Q C L L C G E V L G F L G S S S V F C 112	
AAAGACTGCAGGAAGGTCTGGAAGAGGTGGGGGGCTGGTTCTACAAAGGGCTCCCCAAG	540
K D C R K V W K R S G A W F Y K G L P K 132	
TATATCTTGCCTGAAGACCCCTGGCCGAGCTGATGAGCCCCAGTTCCGACCTTGGCCC	600
Y I L P L K T P G R A D E P Q F R P W P 152	
ACGGAACCGGCAGAGCGAGAGCCCAGAAGCTCTGAGACCAGCCGCATCTACACGTGGGCC	660
T E P A E R E P R S S E T S R I Y T W A 172	
CGAGGAAGAGTGGTTCCAGTGACAGTGACTCGGATCTTAGCTCCTCCAGCCTA	720
R G R V V S S D S D S D S D L S S S S S L 192	
GAGGACAGACTCCCATCCACTGGGGTCAGGGACCGGAAAGGCGACAAACCCCTGGAAGGAG	780
E D R L P S T G V R D R K G D K P W K E 212	
TCAGGTGGCAGCGTGGAGGCCAGGATGGGTTCACCCAACCCGCGGGCACCTCTT	840
S G G S V E A P R M G F T Q P A G H L F 232	

GGGTTGCAGAGCAGCCTGGCCAGTGGTGAGACGGGCACAGGCTCTGCTGACCCGCCAGGG	900
G L Q S S L A S G E T G T G S A D P P G	252
GGAGGGACAGGCTCTGCTGACCCGCCAGGGGGACCCCGCCCCGGGCTGACCCGAAGGGCC	960
G G T G S A D P P G G P R P G L T R R A	272
CCGGTAAAAGACACACCTGGACGAGCCCCGCTGCTGACGCAGCTCCAGCAGGCCCTCC	1020
P V K D T P G R A P A A D A A P A G P S	292
AGCTGCCTGGGCTGAGGTGTCTGGTGCCTGGAACAGACTTCCCTGTGGAGGATTCTGCC	1080
S C L G *	296
AGACCCCTGCCCGGCTCCTCCCTGACCGGTCTTGCCCTCACCAAGACACCCCTGTTGCC	1140
ATGACTCAACAAACCAGTGTGGAGCCGTCTGCCTCCCCAGCTCAGTGCCTTCCTGCAC	1200
CCCTTCTCTCCTGGGGAGCTGTCTGCATCCGCCACCCCTCCAACCACTGCCCTCAGCCC	1260
CCGACCTTATTATTACCCCTCCCTCCCACACCCCCAATCTACCTGGTGATGATTTAAG	1320
TTTGCACGTGTCTGGTTGGCTGGGGTTTCCCACATGCAGTGTCAAGAGGGCCGCC	1380
CGGTGGGCTATCTCCGTTGCTATTAATGGCAAGACTAAATGAAACCTAGGGCACGGC	1440
CTCCGAAGCTGCGTGTGGCCCTTAGAGGTGAGCATCAGAGCCAGAGCAGTGAGGGGGAG	1500
ACTCACCCACCCCTCCCTCTCCCTCAGCTCTGGAGGCAGGCGCAGTCCCCCTCCC	1560
ATGGGCTGGCCAGGACCGCGGGTGAAACCTGGGTCTGTTAGTTCTTGGTTTTGTA	1620
TGTTTGTGTTGTTTGACACAGTCTCGTTGTTGCCAGGCTGGGTGCAGTGGCACGA	1680
TCGCGGCTCACTGCAACCTCCACCTCCCGGGCTCAAGCGATTCTCTCACCTCAGCCTCCT	1740
GAGTAGGTGGATTACAGATGCCGCCACACACCCAGTTAATTTGTATTTAGAAG	1800
AGATGGGTTCTCCATGTTGGCCAGGCTGGTCTGAACTCCTGGTCTCAAGTGATCCGC	1860
CCGCCTGGCCTCCAAAGTGCTGGATTACAGGTGTGAGCCACCGCACCCAACTCTATT	1920
AGGTTTCTTGAATCCCTCATGGCCTGCCTGGTTTGCTCAGCCTGTCTCAGCTGA	1980
GGAGCTGGGAAGCTCTGGTGATGCTATGAACTCACTGCTGAAGAGCAGCGTTAGGTG	2040
CATCCCCAGCCAGGGCACGTGGCTCCCTCAGCCATGAATTCACTCTTCAAGGAGGTT	2100
GGCTTGGCATGAAAATCTCATTAGAGTATGGCAAATGCTTCTGGAAAACCCCTCCC	2160
TGAAGAGAGAGAACGTGTGTGTGATCACACCCCTCCATCCTCAGGAGGTT	2220
CTGCCCAAAACCCGGGTTCTGGGCTGGAAAGGGCCTCTCTCCAAGCTGGAGCTCCT	2280

GGGCCCCCACCATTCACTTTGTCTTGCTGGCAAACAGTAAAGAAACTCACTTC 2340
 CCTGTGGCACGTTATGCTTCAGAATTAAAACAATGAAGATTAAAA 2385

Fig. 2

CL1:

GGCTCCTCATCTGGAACACCTCGGGTCACCCCGACAACGGTGGTGGGAGGGAGAGCGGC	60
CTCCTCCTCCCTGGTGGGGCCTGTCTGGGTGAAGCCCCTCTGTTCCCGAGGGATCGTCCC	120
ACCCCCAGCCGGGTGCTCCGAGCCATGCCGACACCATCTCGGCAGCGGGATGATCAG	180
M A D T I F G S G N D Q 12	
TGGGTTGCCCAATGACCGGCAGCTGCCCTCGAGCCAAGCTGCAGACGGCTGGTCC	240
W V C P N D R Q L A L R A K L Q T G W S 32	
GTGCACACCTACCAGACGGAGAAGCAGAGGAGGAAGCAGCACCTCAGCCGGCGGAGGTG	300
V H T Y Q T E K Q R R K Q H L S P A E V 52	
GAGGCCATCCTGCAGGTCACTCAGAGGGCAGAGCGGCTCGACGTCTGGAGCAGCAGAGA	360
E A I L Q V I Q R A E R L D V L E Q Q R 72	
ATCGGGCGGCTGGTGGAGCGGGCTGGAGACCATGAGGCGGAATGTGATGGGAACGGCCTG	420
I G R L V E R L E T M R R N V M G N G L 92	
TCCCAGTGTCTGCTCTGCCGGAGGTGCTGGCTTCCCTGGCAGCTCGTCGGTGTCTGC	480
S Q C L L C G E V L G F L G S S S V F C 112	
AAAGACTGCAGGAAGAAAGTCTGCACCAAATGTGGATCGAGGCCTCCCTGGCCAGAAG	540
K D C R K K V C T K C G I E A S P G Q K 132	
CGGCCCTGTGGCTGTAAAGATCTGCAGTGAGCAAAGAGAGAGGTCTGGAAGAGGTCGGG	600
R P L W L C K I C S E Q R E V W K R S G 152	
GCCTGGTTCTACAAAGGGCTCCCCAAGTATATCTGCCCTGAAGACCCCTGGCCAGCT	660
A W F Y K G L P K Y I L P L K T P G R A 172	
GATGACCCCCACTTCCGACCTTGCCCACGGAACCGGCAGAGCGAGAGCCCAGAAGCTCT	720
D D P H F R P L P T E P A E R E P R S S 192	

GAGACCAGCCGCATCTACACGTGGGCCCGAGGAAGAGTGGTTCCAGTGACAGTGACAGT 780
 E T S R I Y T W A R G R V V S S D S D S 212
 GACTCGGATCTTAGCTCCTCCAGCCTAGAGGACAGACTCCCATCCACTGGGTCAGGGAC 840
 D S D L S S S S L E D R L P S T G V R D 232
 CGGAAAGGCGACAAACCTGGAAGGAGTCAGGTGGCAGCGTGGAGGCCCCAGGATGGGG 900
 R K G D K P W K E S G G S V E A P R M G 252
 TTCACCCAACCCGGGGCACCTCTTGGGTTGCAGAGCAGCCTGCCAGTGGT GAGACG 960
 F T Q P A G H L F G L Q S S L A S G E T 272
 GGCACAGGCTCTGCTGACCCGCCAGGGGAGGGACAGGCTCTGCTGACCCGCCAGGGGA 1020
 G T G S A D P P G G G T G S A D P P G G 292
 CCCC GCCCCGGGCTGACCGAAGGGCCCCGGTAAGACACACCTGGACGAGCCCCGCT 1080
 P R P G L T R R A P V K D T P G R A P A 312
 GCTGACGCAGCTCCAGCAGGCCCTCCAGCTGCCTGGCTGAGGTGTCTGGTGCCTGGAA 1140
 A D A A P A G P S S C L G * 325
 CAGACTTCCCTGTGGAGGATT CCTGCCAGACCCCTGCCAGCTGCCCTGACCGGTCTT 1200
 GTGCCCTCACCAAGACACCCCTGTTGCCATGACTCAACAAACCAGTGTGGAGCCGTCTG 1260
 CCTCCCCAGCTCAGTGCCTTCTGCACCCCTCTCCTGGGAGCTGTGCATCCGCC 1320
 ACCCCCTCCAACCACGTGCCCTCAGCCCCGACCTTATTACCCCTCCCACACC 1380
 CCCAATCTACCTGGT GATTTAAGTTGCGCGTGTCTGGTTGGCTGGGGTT 1440
 CCCACATGCAGTGT CAGAGGGGCCCGGGTGGGCTATCTCCGTTGCTATAATTAGGC 1500
 AAGACTAAATGAAACCTAGGGCACGGCCTCCGAAGCTGCGTGTGGCCCTTAGAGGTGAG 1560
 CATCAGAGCCAGAGCAGTGAGGGGGAGACTCACCCACCCCTCCCTCAGCTCT 1620
 GGGAGGCAGGCGCAGTGCCTCCCATGGCTGGCCAGGACCGCGGGTGAACCTGG 1680
 GTCTGTTAGTTCTTGGTTTGATGTTGTTGTTGACACAGTCTCGCTTGT 1740
 TGCCCAAGGCTGGGTGCAGTGGCACGATCGCGGCTCACTGCAACCTCCACCTCCGGCT 1800
 CAAGCGATTCTCTCACCTCAGCCTCAGTGGAGTAGGTGGATTACAGATGCCGCCACCA 1860
 CCCAGTTAATTTGTATTTAGAAGAGATGGGGTTCTCCATGTTGGCCAGGCTGGTC 1920
 TTGAACTCCTGGTCTCAAGTGATCCGCCGCTCGGCCTCCAAAGTGCTGGATTACAG 1980

GTGTGAGCCACCGCACCAATCCTATTAGTTCTTGAATCCCCTCATGCCCTGCCTGG 2040
 TTTTGCTCAGCCTGTCTCAGCTGAGGAGCTGGGAAGCTCTGGTGGATGCTATGA 2100
 CACTTGCTGAAGAGCAGCGTTCAGGTGCATCCCCAGCCAGGGCACGTGGCTCCCTCAGCC 2160
 ATGAATTCACTCTTCAGGAGGTTGGCTTGGCATGAAAATACTTCATTAGAGTATG 2220
 GGCAAATGCTCTGGAAACCCCTCCCTGAAGAGAGAACGTGTGTGTGTCGGTG 2280
 ATCACACCCCTCCCATCCTCCTGCCTCCTGCCCAAAACCCCGGGTCCTGGGTCTGGAAG 2340
 GGCCTCTCTCCAAGCTGGAGCTCCTGGGCCACCATTCACTTTGTCCCTGCTGC 2400
 TGGCAAACAGTAAAGAAACTCACTTCCCTGTGGCACGTATGCTTCAGAATTAAAACAA 2460
 TGAAGATTA 2472

Fig.3

CL2:

GGCTCCTCATCTGGAACACCTCGGGTACCCCCGACAACGGTGGTGGAGGGAGAGCGGC 60
 CTCCTCCTCCCTGGTGGGCCCTGTCTGGTGAAGCCCTCTGTTCCGAGGATCGTCCC 120
 ACCCCCAGCCGGTGCTCCGAGCCATGGCGACACCATCTCGGCAGCGGGAAATGATCAG 180
 TGGGTTGCCCAATGACCGGCAGCTGCCCTCGAGCCAAGCACTGACTGCACAGCAGT 240
 GAACAGGACCAACACAGTCCCTGGCTTAAAGCACAGGTGGCAGAGGCTGCAGACGGC 300
 TGGTCGGTGCACACCTACCAGACGGAGAACAGAGGAGGAAGCAGCACCTCAGCCGGCG 360
 GAGGTGGAGGCCATCCTGCAGGTATCCAGAGGGCAGAGCGGCTCGACGTCCGGAGCAG 420
 CAGAGAATCGGGCGGCTGGTGGAGCGGCTGGAGACCATGAGGCGGAATGTGATGGGAAC 480

M	R	R	N	V	M	G	N	8
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GGCCTGTCCCAGTGTCTGCTCTGCCGGAGGTGCTGGCTTCCCTGGCAGCTCGTCGGTG 540
 G L S Q C L L C G E V L G F L G S S S V 28
 TTCTGCAAAGACTGCAGGAAGAAAGTCTGCACCAAATGTGGATCGAGGCCTCCCTGGC 600
 F C K D C R K K V C T K C G I E A S P G 48
 CAGAAGCGGCCCTGTGGCTGTGTAAGATCTGCAGTGAGCAAAGAGAGAGGTCTGGAAGAGG 660
 Q K R P L W L C K I C S E Q R E V W K R 68

TCGGGGGCCTGGTTCTACAAAGGGCTCCCCAAGTATATCTTGCCCTGAAGACCCCTGGC 720
 S G A W F Y K G L P K Y I L P L K T P G 88
 CGAGCTGATGACCCCCACTTCCGACCTTGCCCACGGAACCGGCAGAGCGAGAGCCCAGA 780
 R A D D P H F R P L P T E P A E R E P R 108
 AGCTCTGAGACCAGCCGCATCTACACGTGGGCCGAGGAAGAGTGGTTCCAGTGACAGT 840
 S S E T S R I Y T W A R G R V V S S D S 128
 GACAGTGACTCGGATCTTAGCTCCTCCAGCCTAGAGGACAGACTCCCATCCACTGGGTC 900
 D S D S D L S S S S L E D R L P S T G V 148
 AGGGACCGGAAAGGCGACAAACCTGGAAGGAGTCAGGTGGCAGCGTGGAGGCCAGG 960
 R D R K G D K P W K E S G G S V E A P R 168
 ATGGGGTTCACCAACCCGGGGCCACCTCTTGGTTGCAGAGCAGCCTGGCCAGTGGT 1020
 M G F T Q P A G H L F G L Q S S L A S G 188
 GAGACGGGCACAGGCTCTGCTGACCCGCCAGGGGAGGGACAGGCTCTGCTGACCCGCCA 1080
 E T G T G S A D P P G G G T G S A D P P 208
 GGGGGACCCCGCCCCGGGCTGACCGAAGGGCCCGTAAAAGACACACCTGGACGAGCC 1140
 G G P R P G L T R R A P V K D T P G R A 228
 CCCGCTGCTGACGCAGCTCCAGCAGGCCCTCCAGCTGCCTGGCTGAGGTGTCTGGTGC 1200
 P A A D A A P A G P S S C L G * 243
 CTGGAACAGACTTCCCTGTGGAGGATTCCCTGCCAGACCCCTGCCGGCTCCTCCCTGACCG 1260
 GTCTTGCTGCCCTCACAGACACCCCTGTGGCCATGACTCAACAAACCAGTGTGGAGC 1320
 CGTCTGCCTCCCCAGCTCAGTGCCTTCTGCACCCCTCTCCTGGGAGCTGTCTGCA 1380
 TCCGCCACCCCTCCAACCACTGCCCTAGCCCCGACCTTATTATTACCCCTCCCTCC 1440
 CACACCCCCAATCTACCTGGTATGATTAAAGTTGCGCGTGTCTGGGTGGCTGG 1500
 GGGTTTCCCACATGCAGTGTCAAGAGGGCCGCCGGTGGGCTATCTCCGTTGCTATATT 1560
 AATGGCAAGACTAAATGAAACCTAGGGCACGGCCTCCGAAGCTGCGTGTGGCCCTTAGA 1620
 GGTGAGCATCAGAGCCAGAGCAGTGAGGGGAGACTCACCCACCCCTCCCTCCCTTC 1680
 AGCTCTGGGAGGCAGGCGCAGTGCCCTCCATGGCTGGCCAGGACCGCGGGTGAA 1740

ACCTGGGTCTGTTAGTTCTTGTTTGTATGTTGTTGTTGACACAGTCTCG 1800
 CTTTGTGCCAGGCTGGGTGCAGTGGCACGATCGCGGCTCACTGCAACCTCCACCTCC 1860
 CGGGCTCAAGCGATTCTCTCACCTCAGCCTCCTGAGTAGGTGGATTACAGATGCCGCC 1920
 ACCACACCCAGTTAATTTGTATTTAGAAGAGATGGGGTTCTCCATGTTGGCCAGG 1980
 CTGGTCTTGAACTCCTGGTCTCAAGTGATCCGCCGCCTGGCCTCCAAAGTGCTGGGA 2040
 TTACAGGTGTGAGCCACCGCACCCAATCCTATTAGGTTCTTGAATCCCCTCATGGCCT 2100
 GCCTGGTTTGCTCAGCCTGTCTCAGCTTGAGGAGCTGGAAAGCTCTGGTGGATGCTA 2160
 TGAACTCACTGCTGAAGAGCAGCGTCAGGTGCATCCCCAGCCAGGGCACGTGGCTCCC 2220
 TCAGCCATGAATTCACTCTCTCAGGAGGTTGGCTTGGCATGAAAATACTCATTCA 2280
 AGTATGGCAAATGCTCTGGAAAACCCTCCCTGAAGAGAGAGAACGTGTGTGTG 2340
 TCGGTGATCACACCCCTCCATCCTCCTGCCTCCTGCCAAACCCGGGTTCTGGTC 2400
 TGGAAGGGCCTCTCCAAGCTGGAGCTCCTGGGCCCCACCATTCACTTTGTCCT 2460
 TGCTGCTGGCAAACAGTAAAGAAACTCACTTCCCTGTGGCACGTTATGCTTCAGAATTA 2520
 AAACAATGAAGATTA 2538

Fig. 4

CL3:

GGCTCCTCATCTGGAACACCTCGGGTCACCCCCGACAACGGTGGTGGAGGGAGAGCGGC	60
CTCCTCCTCCCTGGTGGGCCTGTCCTGGTGAAGCCCTCTGTTCCGAGGATCGTCCCA	120
ACCCCCAGCCGGGTGCTCCGAGCCATGGCCGACACCATCTCGGCAGCGGGAAATGATCAG	180
M A D T I F G S G N D Q	12
TGGGTTGCCCAATGACCGGCAGCTTGCCCTTCGAGCCAAGCTGCAGACGGCTGGTCC	240
W V C P N D R Q L A L R A K L Q T G W S	32
GTGCACACCTACCAGACGGAGAAGCAGAGGAGGAAGCAGCACCTCAGCCGGCGAGGTG	300
V H T Y Q T E K Q R R K Q H L S P A E V	52
GAGGCCATCCTGCAGGTATCCAGAGGGCAGAGCGGGCTCGACGTCCCTGGAGCAGCAGAGA	360
E A I L Q V I Q R A E R L D V L E Q Q R	72

ATCGGGCGGCTGGTGGAGCGGCTGGAGACCATGAGGCAGAATGTGATGGGAACGGCTG	420
I G R L V E R L E T M R R N V M G N G L	92
TCCCAAGTGTCTGCTCTGCGGGGAGGTGCTGGCTTCCTGGCAGCTCGTCGGTGTCTGC	480
S Q C L L C G E V L G F L G S S S V F C	112
AAAGACTGCAGGAAGAAAGTCTGCACCAAATGTGGGATCGAGGCCTCCCCTGGCCAGAAG	540
K D C R K K V C T K C G I E A S P G Q K	132
CGGCCCTGTGGCTGTGTAAGATCTGCAGTGAGCAAAGAGAGGTCTGGAAGAGGTGGGG	600
R P L W L C K I C S E Q R E V W K R S G	152
GCCTGGTTCTACAAAGGGCTCCCCAAGTATATCTTGCCTGAAGACCCCTGGCCGAGCT	660
A W F Y K G L P K Y I L P L K T P G R A	172
GATGACCCCCACTTCCGACCTTGCCCACCGAACCGCAGAGCGAGAGCCCAGAACGCTCT	720
D D P H F R P L P T E P A E R E P R S S	192
GAGACCAGCCGCATCTACACGTGGGCCAGGAAGAGTCGTAGGAAGAAAGTGCTGATCC	780
E T S R I Y T W A R G R V V G R K C *	210
ACGCTGCAGCCTGGATGAGTCCTGAAAACACCATGCGAAGTGGAAAGAACCGGAGACGA	840
AAGGCCCGTGTGTGATCTCATCTATGAGCAGTGGTTCCAGTGACAGTGACAGT	900
GACTCGGATCTTAGCTCCAGCCTAGAGGACAGACTCCATCCACTGGGTCAAGGAC	960
CGGAAAGGCACAAACCTGGAAAGGAGTCAGGTGGCAGCGTGGAGGGCCCCCAGGATGGGG	1020
TTCACCCAACCCGGCCACCTCTTGGGTGAGCAGACGCCTGGCCAGTGAGAC	1080
GGCACAGGCTCTGCTGACCCGCCAGGGGAGGGACAGGCTCTGCTGACCCGCCAGGGGA	1140
CCCCGCCCGGGCTGACCGAACGGCCCCGGTAAAAGACACACCTGGACGAGCCCCGCT	1200
GCTGACGCAGCTCCAGCAGGCCCTCCAGCTGCCTGGCTGAGGTGTCTGGTGCTGGAA	1260
CAGACTTCCCTGTGGAGGATTCCCTGCCAGACCCCTGCCGGCTCCTCCCTGACCGTCCT	1320
GTGCCCTCACCAAGACACCCCTGGGCCATGACTCAACAAACCAAGTGTGGAGCCGTCTG	1380
CCTCCCCAGCTCAGTGCCTTCTGCACCCCTCTCCTGGGAGCTGTCTGCATCCGCC	1440
ACCCCCCTCCAACCACTGCCCTCAGCCCCGACCTTATTATTACCCCTCCCACACC	1500
CCCAATCTACCTGGTGTGATTTAAGTTGCGCGTGTCTGGTTGGCTGGGGTT	1560

CCCACATGCAGTGTCA GAGGGGCCCGGTGGGCTATCTCCGTTGCTATATTAATGGC 1620
 AAGACTAAATGAAACCTAGGGCACGGCCTCCGAAGCTGCGTGTGGCCCCTAGAGGTGAG 1680
 CATCAGAGCCAGAGCAGTGAGGGGAGACTCACCCACCCTCTCCCTCTCCCTTCAGCTCT 1740
 GGGAGGCAGGCGCAGTGCCCCCCTCCCATGGGCTGGCCCAGGACCGCGGGTAGAACCTGG 1800
 GTCTGTTAGTTCTTGTTGTATGTTGTTGTTGACACAGTCTCGCTTGT 1860
 TGCCCAGGCTGGGTGCAGTGGCACGATCGCGGCTCACTGCAACCTCCACCTCCGGGCT 1920
 CAAGCGATTCTCTCACCTCAGCCTCCTGAGTAGGTGGATTACAGATGCCGCCACCACA 1980
 CCCAGTTAATTTGTATTTAGAAGAGATGGGTTCTCCATGTTGCCAGGCTGGTC 2040
 TTGAACCTCCTGGTCTCAAGTGATCCGCCCTCGGCCTCCCAAAGTGCTGGATTACAG 2100
 GTGTGAGCCACCGCACCCAATCCTATTAGGTTCTTGAATCCCCTCATGGCCTGCCTGG 2160
 TTTTGCTCAGCCTGTCTCAGCTTGAGGAGCTGGGAAGCTCTGGTGGATGCTATGAAC 2220
 CACTTGCTGAAGAGCAGCGTTCAGGTGCATCCCCAGCCAGGGCACGTGGCTCCCTCAGCC 2280
 ATGAATTCACTCTTCAGGAGGTTGGCTTGGCATGAAAATACTTCATTAGAGTATG 2340
 GGCAAATGCTTCTGGAAAACCCTCCCTGAAGAGAGAGAACGTGTGTGTGTGGTG 2400
 ATCACACCCCTCCCATCCTCCTGCCTCCTGCCCAAACCCGGGTTCTGGTCTGGAAAG 2460
 GCCCTCTCTCCAAGCTGGAGCTCCTGGGCCCCCACCATTCACTTTGTCTTGCTGC 2520
 TGGCAAACAGTAAAGAAACTCACTTCCCTGTGGCACGTTATGCTTCAGAATTAAAACAA 2580
 TGAAGATTAAGA 2592

Fig. 5

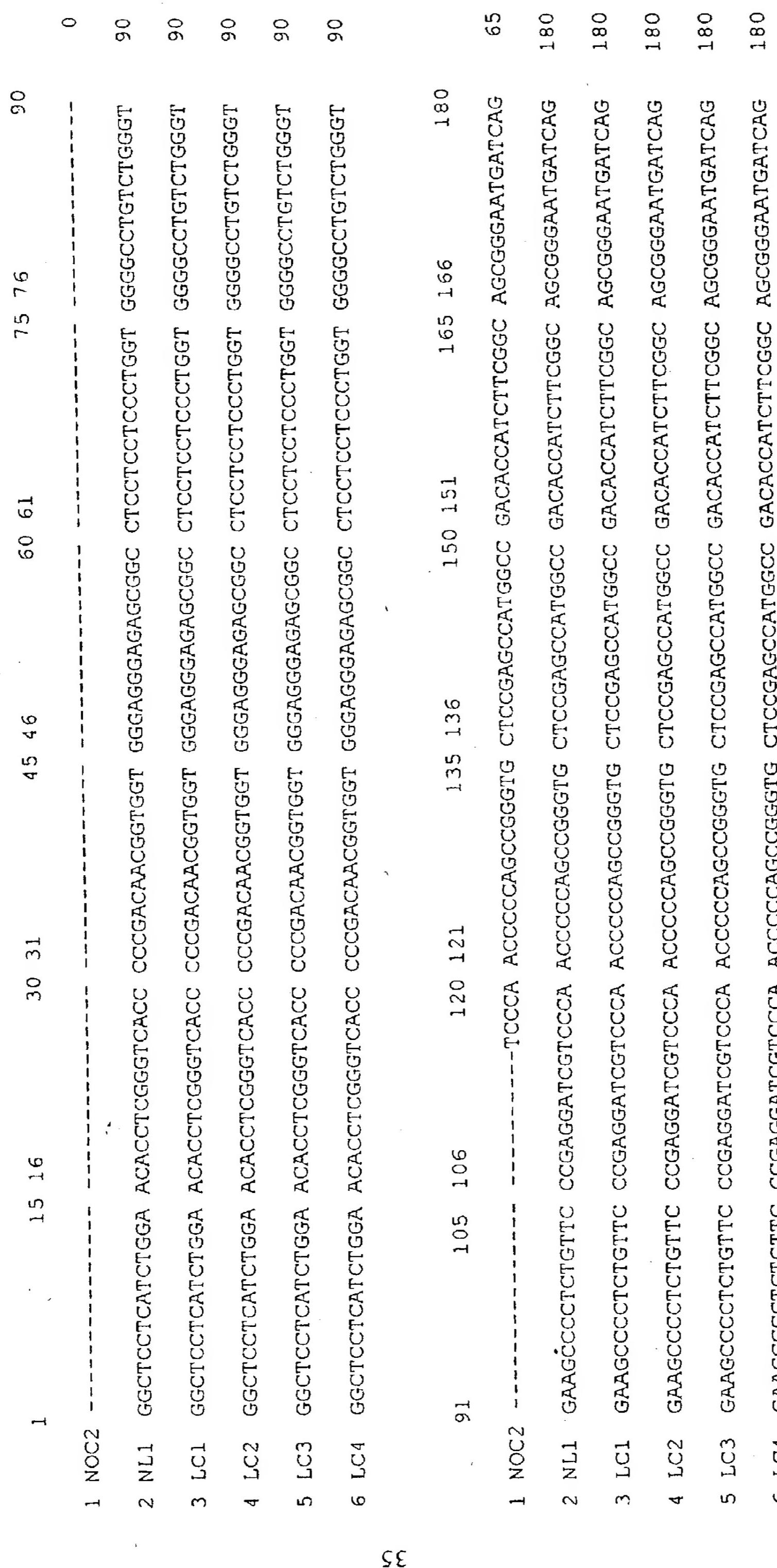
CL4:

GGCTCCTCATCTGGAACACCTCGGGTACCCCCGACAACGGTGGTGGGAGGGAGAGCGGC 60
 CTCCCTCCCTGGTGGGCTGTCTGGGTGAAGCCCTCTGTTCCGAGGGATCGTCCCA 120
 ACCCCCAGCCGGGTGCTCGAGCCATGGCGACACCCTTCGGCAGCGGAATGATCAG 180
 TGGGTTGCCCAATGACCGGCAGCTGCCCTCGAGCCAAGCACTGACTGCACAGCAGT 240
 GAACAGGACCAACACAGTCCCTGGTCTTAAAGCACAGGTGGCAGAGGCTGCAGACGGC 300
 TGGTCCGTGCACACCTACCAGACGGAGAACAGAGGAGGAAGCAGCACCTCAGCCGGCG 360

GAGGTGGAGGCCATCCTGCAGGTCATCCAGAGGGCAGAGCGGCTCGACGT CCTGGAGCAG	420
CAGAGAATCGGGCGGCTGGTGGAGCGGCTGGAGACCATGAGGCGGAATGTGATGGGAAC	480
M R R N V M G N	8
GGCCTGTCCCAGTGTCTGCTCTGCAGGGAGGTGCTGGCTTCCTGGCAGCTCGTCGGTG	540
G L S Q C L L C G E V L G F L G S S S V	28
TTCTGCAAAGACTGCAGGAAGAAAGTCTGCACCAAATGTGGATCGAGGCCTCCCCTGGC	600
F C K D C R K K V C T K C G I E A S P G	48
CAGAAGCGGCCCTGTGGCTGTGTAAGATCTGCAGTGAGCAAAGAGAGGTCTGGAAGAGG	660
Q K R P L W L C K I C S E Q R E V W K R	68
TGGGGGCCTGGTCTACAAAGGGCTCCCCAAGTATATCTTGCCTGAAGACCCCTGGC	720
S G A W F Y K G L P K Y I L P L K T P G	88
CGAGCTGATGACCCCCACTTCCGACCTTGCCCACGGAACCGGCAGAGCGAGAGCCCAGA	780
R A D D P H F R P L P T E P A E R E P R	108
AGCTCTGAGACCAGCCGCATCTACACGTGGGCCGAGGAAGAGTCGTAGGAAGAAAGTGC	840
S S E T S R I Y T W A R G R V V G R K C	128
TGATCCACGCTGCAGCCTGGATGAGTCCTTGAAAACACCATGCGAAGTGGAAAGAACCGG	900
AGACGAAAGGCCCGTGTGTGATCTCATCTATGAGCAGTGGTTCCAGTGACAGT	960
GACAGTGA CTCGGATCTTAGCTCCTCCAGCCTAGAGGACAGACTCCATCCACTGGGTC	1020
AGGGACCGGAAAGGCGACAAACCTGGAAGGAGTCAGGTGGCAGCGTGGAGGCCAGG	1080
ATGGGGTTCACCCAACCCGGGCCACCTCTTGGGTTGCAGAGCAGCCTGGCCAGTG	1140
GAGACGGGCACAGGCTTGCTGACCCGCCAGGGGGGGACAGGCTTGCTGACCCGCCA	1200
GGGGGACCCGCCGGGCTGACCGAAGGGCCCGTAAAAGACACACACCTGGACGCC	1260
CCCGCTGCTGACCGCAGCTCCAGCAGGCCCTCCAGCTGCCTGGCTGAGGTGTCTGGTGC	1320
CTGGAACAGACTCCCTGTGGAGGATTCCCTGCCAGACCCCTGCCGGCTCCTCCCTGACCG	1380
GTCCTTGTGCCCTCACCAAGACACCCCTGTTGCCATGACTCAACAAACCAGTGTGGAGC	1440
CGTCTGCCTCCCCAGCTCAGTGCCTTCTGCACCCCTCTCCTGGGAGCTGTCTGCA	1500
TCCGCCACCCCTCCAACCACTGCCCTCAGCCCCGACCTTATTATTACCCCTCCCTCC	1560

CACACCCCCAATCTACCTGGTGATTTAAGTTGCGCGTGTCTGGGTTGGGCTGGG 1620
 GGGTTTCCCACATGCAGTGTCAAGAGGGGCCGCCGGTGGGCTATCTCCGTTGCTATATT 1680
 AATGGCAAGACTAAATGAAACCTAGGGCACGGCCTCCGAAGCTGCGTGTGGCCCTTAGA 1740
 GGTGAGCATCAGAGCCAGAGCAGTGAGGGGAGACTCACCCACCCTCTCCCTCTCCCTTC 1800
 AGCTCTGGGAGGCAGGCGCAGTGCCCCCTCCCATGGGCTGGCCCAGGACCGCGGGTGAA 1860
 ACCTGGGTCTGTTAGTTCTTGTTTGTATGTTGTTGTTGACACAGTCTCG 1920
 CTTTGTGCCAGGCTGGGTGCAGTGGCACGATCGCGGCTCACTGCAACCTCCACCTCC 1980
 CGGGCTCAAGCGATTCTCACCTCAGCCTCCTGAGTAGGTGGATTACAGATGCCGCC 2040
 ACCACACCCAGTTAATTTGTATTTAGAAGAGATGGGGTTCTCCATGTTGCCAGG 2100
 CTGGTCTTGAACTCCTGGTCTCAAGTGATCCGCCGCCTGGCCTCCAAAGTGCTGGGA 2160
 TTACAGGTGTGAGCCACCGCACCCAATCCTATTAGGTTCTTGAATCCCCTCATGGCCT 2220
 GCCTGGTTTGCTCAGCCTGTCTCAGTTGAGGAGCTGGGAAGCTCTGGTGGATGCTA 2280
 TGAACTCACTGCTGAAGAGCAGCGTTCAGGTGCATCCCCAGCCAGGGCACGTGGCTCCC 2340
 TCAGCCATGAATTCACTCTTCAGGAGGTTGGCTGGCATGAAAATACTTCATTCAAG 2400
 AGTATGGCAAATGCTCTGGAAAACCCTCCCTGAAGAGAGAGAACGTGTGTGTG 2460
 TCGGTGATCACACCCCTCCATCCTCCTGCCTCCTGCCAAACCCGGGTTCCCTGGGTC 2520
 TGGAAGGGCTTCTCTCCAAGCTGGAGCTCCTGGGCCCCACCATTCACTTTGTCT 2580
 TGCTGCTGGCAAACAGTAAAGAAACTCACTTCCCTGTGGCACGTTATGCTTCAGAATTA 2640
 AAACAATGAAGATTA 2658

Fig. 6



		181	195	196	210	211	225	226	240	241	255	256	270
1	NOC2	TGGGTTGCCCAAT	GACCGGCAGCTTGCCT	GACCGGCAGCTTGCCT	CTTCGAGCCAAGC	--	--	--	--	--	--	--	108
2	NL1	TGGGTTGCCCAAT	GACCGGCAGCTTGCCT	GACCGGCAGCTTGCCT	CTTCGAGCCAAGC	--	--	--	--	--	--	--	223
3	LC1	TGGGTTGCCCAAT	GACCGGCAGCTTGCCT	GACCGGCAGCTTGCCT	CTTCGAGCCAAGC	--	--	--	--	--	--	--	223
4	LC2	TGGGTTGCCCAAT	GACCGGCAGCTTGCCT	GACCGGCAGCTTGCCT	CTTCGAGCCAAGC	TGACTGCACAGCAGT	GAACAGGACCAACAC	AGTCCCTGGTCTTAA	270	--	--	--	
5	LC3	TGGGTTGCCCAAT	GACCGGCAGCTTGCCT	GACCGGCAGCTTGCCT	CTTCGAGCCAAGC	--	--	--	--	--	--	--	223
6	LC4	TGGGTTGCCCAAT	GACCGGCAGCTTGCCT	GACCGGCAGCTTGCCT	CTTCGAGCCAAGC	TGACTGCACAGCAGT	GAACAGGACCAACAC	AGTCCCTGGTCTTAA	270	--	--	--	
		271	285	286	300	301	315	316	330	331	345	346	360
92	1	NOC2	--	--	--	--	--	--	--	--	--	--	179
2	NL1	--	--	--	--	--	--	--	--	--	--	--	294
3	LC1	--	--	--	--	--	--	--	--	--	--	--	294
4	LC2	AGCACAGGTGGCAG	AGGCTGCAGACGGC	AGGCTGCAGACGGC	TGGTCCGTGCACACC	TGGTCCGTGCACACC	TACCA GACGGAGAAG	CAGAGGAGGAAGCAG	CACCTCAGGCCGGCG	360	--	--	
5	LC3	--	--	--	--	--	--	--	--	--	--	--	294
6	LC4	AGCACAGGTGGCAG	AGGCTGCAGACGGC	AGGCTGCAGACGGC	TGGTCCGTGCACACC	TGGTCCGTGCACACC	TACCA GACGGAGAAG	CAGAGGAGGAAGCAG	CACCTCAGGCCGGCG	360	--	--	
		361	375	376	390	391	405	406	420	421	435	436	450
1	NOC2	GAGGTGGAGGCCATC	CTGCAGGGTCATCCAG	AGGGCAGAGGGCTC	GACGTCCGTGAGCAG	CAGAGAATCGGGGG	CTGGTGGAGGGCTG	269	--	--	--	--	
2	NL1	GAGGTGGAGGCCATC	CTGCAGGGTCATCCAG	AGGGCAGAGGGCTC	GACGTCCGTGAGCAG	CAGAGAATCGGGGG	CTGGTGGAGGGCTG	384	--	--	--	--	

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631	TGCAGTGAGCAAAGA	GAGGTCTGGAAGAGG	TCGGGGCCTGGTTC	TACAAAGGGCTCCCC	AAGTATATCTTGCCC	CTGAAGACCCCTGGC	539	720	
632	NL1	-----	-----	-----	-----	-----	567	705	706
633	LC1	TGCAGTGAGCAAAGA	GAGGTCTGGAAGAGG	TCGGGGCCTGGTTC	TACAAAGGGCTCCCC	AAGTATATCTTGCCC	654	675	676
634	LC2	TGCAGTGAGCAAAGA	GAGGTCTGGAAGAGG	TCGGGGCCTGGTTC	TACAAAGGGCTCCCC	AAGTATATCTTGCCC	720	690	691
635	LC3	TGCAGTGAGCAAAGA	GAGGTCTGGAAGAGG	TCGGGGCCTGGTTC	TACAAAGGGCTCCCC	AAGTATATCTTGCCC	654	700	701
636	LC4	TGCAGTGAGCAAAGA	GAGGTCTGGAAGAGG	TCGGGGCCTGGTTC	TACAAAGGGCTCCCC	AAGTATATCTTGCCC	720	700	701
637	1	NOC2	CGAGCTGATGACCCC	CACTTCCGACCTTG	CCCACGGAACCGGCA	GAGCGAGAGGCCAGA	629	721	
638	2	NL1	CGAGCTGATGAGCCC	CAGTTCCGACCTTG	CCCACGGAACCGGCA	GAGCGAGAGGCCAGA	657	735	736
639	3	LC1	CGAGCTGATGACCC	CACTTCCGACCTTG	CCCACGGAACCGGCA	GAGCGAGAGGCCAGA	744	750	751
640	4	LC2	CGAGCTGATGACCC	CACTTCCGACCTTG	CCCACGGAACCGGCA	GAGCGAGAGGCCAGA	810	765	766
641	5	LC3	CGAGCTGATGACCC	CACTTCCGACCTTG	CCCACGGAACCGGCA	GAGCGAGAGGCCAGA	744	795	796
642	6	LC4	CGAGCTGATGACCC	CACTTCCGACCTTG	CCCACGGAACCGGCA	GAGCGAGAGGCCAGA	810	870	871
643	1	NOC2	GCCCCGAGGAAGAGT-	-----	-----	-----	643	885	886
644	2	NL1	GCCCCGAGGAAGAGT-	-----	-----	-----	671	-----	-----
645	3	LC1	CCCCCCCCCCCC	-----	-----	-----	758	-----	-----

5	LC3	CTAGAGGACAGACTC	CCATCCACTGGGTCAAGGGACCGAAAGGC	GACAAACCCCTGGAAAG	GAGTCAGGTGGCAGC	GTGGAGGGCCCCCAGG	1014								
6	LC4	CTAGAGGACAGACTC	CCATCCACTGGGTCAAGGGACCGAAAGGC	GACAAACCCCTGGAAAG	GAGTCAGGTGGCAGC	GTGGAGGGCCCCCAGG	1080								
		1081	1095	1096	1110	1111	1125	1126	1140	1141	1155	1156	1170	847	
1	NOC2	ATGGGGTTCAACCAA	CCGGCGGCCACCTC	TCTGGGTGCCAGAGC	AGCCTGGCCAGTGGT	GAGACGGG-----	-----	-----	-----	-----	-----	-----	-----	-----	
2	NL1	ATGGGGTTCAACCAA	CCCGCGGCCACCTC	TTTGGGTTCAGAGC	AGCCTGGCCAGTGGT	GAGACGGGCACAGGC	TCTGCTGACCCGCCA	897							
3	LC1	ATGGGGTTCAACCAA	CCCGCGGCCACCTC	TTTGGGTTCAGAGC	AGCCTGGCCAGTGGT	GAGACGGGCACAGGC	TCTGCTGACCCGCCA	984							
4	LC2	ATGGGGTTCAACCAA	CCCGCGGCCACCTC	TTTGGGTTCAGAGC	AGCCTGGCCAGTGGT	GAGACGGGCACAGGC	TCTGCTGACCCGCCA	1050							
5	LC3	ATGGGGTTCAACCAA	CCCGCGGCCACCTC	TTTGGGTTCAGAGC	AGCCTGGCCAGTGGT	GAGACGGGCACAGGC	TCTGCTGACCCGCCA	1104							
6	LC4	ATGGGGTTCAACCAA	CCCGCGGCCACCTC	TTTGGGTTCAGAGC	AGCCTGGCCAGTGGT	GAGACGGGCACAGGC	TCTGCTGACCCGCCA	1170							
		0†													
		1171		1185	1186		1200	1201	1215	1216	1230	1231	1245	1246	1260
1	NOC2	-----GACAGGC	TCTGCTGACCCGCCA	GGGGGACCCGCCCA	GGGGGTAAAGAC	ACACCTGGACGAGCC	929								
2	NL1	GGGGGAGGGACAGGC	TCTGCTGACCCGCCA	GGGGGACCCGCCCA	GGGCTGACCCGAAGG	ACACCTGGACGAGCC	987								
3	LC1	GGGGGAGGGACAGGC	TCTGCTGACCCGCCA	GGGGGACCCGCCCA	GGGCTGACCCGAAGG	ACACCTGGACGAGCC	1074								
4	LC2	GGGGGAGGGACAGGC	TCTGCTGACCCGCCA	GGGGGACCCGCCCA	GGGCTGACCCGAAGG	ACACCTGGACGAGCC	1140								
5	LC3	GGGGGAGGGACAGGC	TCTGCTGACCCGCCA	GGGGGACCCGCCCA	GGGCTGACCCGAAGG	ACACCTGGACGAGCC	1194								
6	LC4	GGGGGGGAGGGACAGGC	TCTGCTGACCCGCCA	GGGGGACCCGCCCA	GGGCTGACCCGAAGG	ACACCTGGACGAGCC	1260								

1261	1275	1276	1290	1291	1305	1306	1320	1321	1335	1336	1350
1	NOC2	CCCGCTGCTGACGCA	GCTCCAGCAGGGCCC	TCCAGCTGCCTGGGC	TGAGGTGTCTGGTC	CTGGAACAGACTTCC	CTGTGGAGGATTCCCT	1019			
2	NL1	CCCGCTGCTGACGCA	GCTCCAGCAGGGCCC	TCCAGCTGCCTGGGC	TGAGGTGTCTGGTC	CTGGAACAGACTTCC	CTGTGGAGGATTCCCT	1077			
3	LC1	CCCGCTGCTGACGCA	GCTCCAGCAGGGCCC	TCCAGCTGCCTGGGC	TGAGGTGTCTGGTC	CTGGAACAGACTTCC	CTGTGGAGGATTCCCT	1164			
4	LC2	CCCGCTGCTGACGCA	GCTCCAGCAGGGCCC	TCCAGCTGCCTGGGC	TGAGGTGTCTGGTC	CTGGAACAGACTTCC	CTGTGGAGGATTCCCT	1230			
5	LC3	CCCGCTGCTGACGCA	GCTCCAGCAGGGCCC	TCCAGCTGCCTGGGC	TGAGGTGTCTGGTC	CTGGAACAGACTTCC	CTGTGGAGGATTCCCT	1284			
6	LC4	CCCGCTGCTGACGCA	GCTCCAGCAGGGCCC	TCCAGCTGCCTGGGC	TGAGGTGTCTGGTC	CTGGAACAGACTTCC	CTGTGGAGGATTCCCT	1350			
1	NOC2	GCCAGACCCTGCCCG	GCTCCTCCCTGACCG	GTCCCTTGTCGCCCTCA	CCAGACACCCTGTTC	GCCATGACTAACAA	ACCAGTGTGGGAGC	1109			
2	NL1	GCCAGACCCTGCCCG	GCTCCTCCCTGACCG	GTCCCTTGTCGCCCTCA	CCAGACACCCTGTTC	GCCATGACTAACAA	ACCAGTGTGGGAGC	1167			
3	LC1	GCCAGACCCTGCCCG	GCTCCTCCCTGACCG	GTCCCTTGTCGCCCTCA	CCAGACACCCTGTTC	GCCATGACTAACAA	ACCAGTGTGGGAGC	1254			
4	LC2	GCCAGACCCTGCCCG	GCTCCTCCCTGACCG	GTCCCTTGTCGCCCTCA	CCAGACACCCTGTTC	GCCATGACTAACAA	ACCAGTGTGGGAGC	1320			
5	LC3	GCCAGACCCTGCCCG	GCTCCTCCCTGACCG	GTCCCTTGTCGCCCTCA	CCAGACACCCTGTTC	GCCATGACTAACAA	ACCAGTGTGGGAGC	1374			
6	LC4	GCCAGACCCTGCCCG	GCTCCTCCCTGACCG	GTCCCTTGTCGCCCTCA	CCAGACACCCTGTTC	GCCATGACTAACAA	ACCAGTGTGGGAGC	1440			
1	NOC2	CGTCTGCCCTCCAG	CTCAGTGCCTTCTG	CACCCCTTCTCTG	GGGGAGCTGTCTCT	TCCGCCACCCCTCC	AACCACTGCCCTCAG	1199			
2	NL1	CGTCTGCCCTCCAG	CTCAGTGCCTTCTG	CACCCCTTCTCTG	GGGGAGCTGTCTCT	TCCGCCACCCCTCC	AACCACTGCCCTCAG	1257			
3	LC1	CGTCTGCCCTCCAG	CTCAGTGCCTTCTG	CACCCCTTCTCTG	GGGGAGCTGTCTCT	TCCGCCACCCCTCC	AACCACTGCCCTCAG	1344			

4	LC2	CGTCTGCCTCCAG	CTCAGTGCTTCTG	CACCCCTCTCTCCT	GGGGAGCTGTCTGCA	TCCGCCACCCCTCC	AACCACCTGCCCTCAG	1410
5	LC3	CGTCTGCCTCCAG	CTCAGTGCTTCTG	CACCCCTCTCTCCT	GGGGAGCTGTCTGCA	TCCGCCACCCCTCC	AACCACCTGCCCTCAG	1464
6	LC4	CGTCTGCCTCCAG	CTCAGTGCTTCTG	CACCCCTCTCTCCT	GGGGAGCTGTCTGCA	TCCGCCACCCCTCC	AACCACCTGCCCTCAG	1530
1531		1545 1546	1560 1561	1575 1576	1590 1591	1605 1606	1620	
1	NOC2	CCCCGACCTTATT	ATTACCCCTCCCTCC	CACACCCCAATCTA	CCTGGTGTGATGATT	AAGTTTGCGCGTGTTC	TTGGGTTGGGCTGGG	1289
2	NL1	CCCCGACCTTATT	ATTACCCCTCCCTCC	CACACCCCAATCTA	CCTGGTGTGATGATT	AAGTTTGCGCGTGTTC	TTGGGTTGGGCTGGG	1347
3	LC1	CCCCGACCTTATT	ATTACCCCTCCCTCC	CACACCCCAATCTA	CCTGGTGTGATGATT	AAGTTTGCGCGTGTTC	TTGGGTTGGGCTGGG	1434
4	LC2	CCCCGACCTTATT	ATTACCCCTCCCTCC	CACACCCCAATCTA	CCTGGTGTGATGATT	AAGTTTGCGCGTGTTC	TTGGGTTGGGCTGGG	1500
5	LC3	CCCCGACCTTATT	ATTACCCCTCCCTCC	CACACCCCAATCTA	CCTGGTGTGATGATT	AAGTTTGCGCGTGTTC	TTGGGTTGGGCTGGG	1554
6	LC4	CCCCGACCTTATT	ATTACCCCTCCCTCC	CACACCCCAATCTA	CCTGGTGTGATGATT	AAGTTTGCGCGTGTTC	TTGGGTTGGGCTGGG	1620
1621		1635 1636	1650 1651	1665 1666	1680 1681	1695 1696	1710	
1	NOC2	GGTTTCCCACATGC	AGTGTCAAGGGGCC	GCCCCGGTGGGCTAT	CTCCGGTTGCTATATT	AATGGCAAGACTAAA	TGAAACCTAGGGCAC	1379
2	NL1	GGTTTCCCACATGC	AGTGTCAAGGGGCC	GCCCCGGTGGGCTAT	CTCCGGTTGCTATATT	AATGGCAAGACTAAA	TGAAACCTAGGGCAC	1437
3	LC1	GGTTTCCCACATGC	AGTGTCAAGGGGCC	GCCCCGGTGGGCTAT	CTCCGGTTGCTATATT	AATGGCAAGACTAAA	TGAAACCTAGGGCAC	1524
4	LC2	GGTTTCCCACATGC	AGTGTCAAGGGGCC	GCCCCGGTGGGCTAT	CTCCGGTTGCTATATT	AATGGCAAGACTAAA	TGAAACCTAGGGCAC	1590
5	LC3	GGTTTCCCACATGC	AGTGTCAAGGGGCC	GCCCCGGTGGGCTAT	CTCCGGTTGCTATATT	AATGGCAAGACTAAA	TGAAACCTAGGGCAC	1644
6	LC4	GGTTTCCCACATGC	AGTGTCAAGGGGCC	GCCCCGGTGGGCTAT	CTCCGGTTGCTATATT	AATGGCAAGACTAAA	TGAAACCTAGGGCAC	1710

1	1711	1725	1726	1740	1741	1755	1756	1770	1771	1785	1786	1800
1	NOC2	GGCCTCCGAAGCTGC	GTGTGGCCCTTAGA	GGTGAGCATCAGAGC	CAGAGCAGTGAGGG	GAGACTCACCCACCC	TCTCCCTCTCCCTTC	1469				
2	NL1	GGCCTCCGAAGCTGC	GTGTGGCCCTTAGA	GGTGAGCATCAGAGC	CAGAGCAGTGAGGG	GAGACTCACCCACCC	TCTCCCTCTCCCTTC	1527				
3	LC1	GGCCTCCGAAGCTGC	GTGTGGCCCTTAGA	GGTGAGCATCAGAGC	CAGAGCAGTGAGGG	GAGACTCACCCACCC	TCTCCCTCTCCCTTC	1614				
4	LC2	GGCCTCCGAAGCTGC	GTGTGGCCCTTAGA	GGTGAGCATCAGAGC	CAGAGCAGTGAGGG	GAGACTCACCCACCC	TCTCCCTCTCCCTTC	1680				
5	LC3	GGCCTCCGAAGCTGC	GTGTGGCCCTTAGA	GGTGAGCATCAGAGC	CAGAGCAGTGAGGG	GAGACTCACCCACCC	TCTCCCTCTCCCTTC	1734				
6	LC4	GGCCTCCGAAGCTGC	GTGTGGCCCTTAGA	GGTGAGCATCAGAGC	CAGAGCAGTGAGGG	GAGACTCACCCACCC	TCTCCCTCTCCCTTC	1800				
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4		1801	1815	1816	1830	1831	1845	1846	1860	1861	1875	1876
1	NOC2	AGCTCTGGGAGGCAG	GCGCAGTGCCCT	CCCATGGCTGGCCC	AGGACCGGGGTGAA	ACCTGGGTCTGTTA	GTTCCTTTGGTTTT	1559				
2	NL1	AGCTCTGGGAGGCAG	GCGCAGTGCCCT	CCCATGGCTGGCCC	AGGACCGGGGTGAA	ACCTGGGTCTGTTA	GTTCCTTTGGTTTT	1617				
3	LC1	AGCTCTGGGAGGCAG	GCGCAGTGCCCT	CCCATGGCTGGCCC	AGGACCGGGGTGAA	ACCTGGGTCTGTTA	GTTCCTTTGGTTTT	1704				
4	LC2	AGCTCTGGGAGGCAG	GCGCAGTGCCCT	CCCATGGCTGGCCC	AGGACCGGGGTGAA	ACCTGGGTCTGTTA	GTTCCTTTGGTTTT	1770				
5	LC3	AGCTCTGGGAGGCAG	GCGCAGTGCCCT	CCCATGGCTGGCCC	AGGACCGGGGTGAA	ACCTGGGTCTGTTA	GTTCCTTTGGTTTT	1824				
6	LC4	AGCTCTGGGAGGCAG	GCGCAGTGCCCT	CCCATGGCTGGCCC	AGGACCGGGGTGAA	ACCTGGGTCTGTTA	GTTCCTTTGGTTTT	1890				
		1891	1905	1906	1920	1921	1935	1936	1950	1951	1965	1966
1	NOC2	GTATGTTGTTGTT	TTTGACACAGTCTCG	CTTGTGTTGCCAGGC	TGGGGTGCAGTGGCA	CGATCGGGGCTCACT	GCAAACCTCCACCTCC	1649				
2	NL1	GTATGTTGTTGTT	TTTGACACAGTCTCG	CTTGTGTTGCCAGGC	TGGGGTGCAGTGGCA	CGATCGGGGCTCACT	GCAAACCTCCACCTCC	1707				

3	LC1	GTATGTTGTTGTT TTTGACACAGTCTCG	CTTGAGCCCCAGGC	TGGGGTCAGTGGCA	CGATCGGGGCTCACT	GCAACACTCCACCTCC	1794
4	LC2	GTATGTTGTTGTT TTGACACAGTCTCG	CTTGAGCCCCAGGC	TGGGGTCAGTGGCA	CGATCGGGGCTCACT	GCAACACTCCACCTCC	1860
5	LC3	GTATGTTGTTGTT TTGACACAGTCTCG	CTTGAGCCCCAGGC	TGGGGTCAGTGGCA	CGATCGGGGCTCACT	GCAACACTCCACCTCC	1914
6	LC4	GTATGTTGTTGTT TTGACACAGTCTCG	CTTGAGCCCCAGGC	TGGGGTCAGTGGCA	CGATCGGGGCTCACT	GCAACACTCCACCTCC	1980
1	NOC2	CGGGCTCAAAGCGATT	CTCTCACCTCAGCCT	CCTGAGTAGGTGGAA	TTACAGATGCCGCC	ACCACACCCAGTTAA	TTTTTGTATTTTAG
2	NL1	CGGGCTCAAAGCGATT	CTCTCACCTCAGCCT	CCTGAGTAGGTGGAA	TTACAGATGCCGCC	ACCACACCCAGTTAA	TTTTTGTATTTTAG
3	LC1	CGGGCTCAAAGCGATT	CTCTCACCTCAGCCT	CCTGAGTAGGTGGAA	TTACAGATGCCGCC	ACCACACCCAGTTAA	TTTTTGTATTTTAG
4	LC2	CGGGCTCAAAGCGATT	CTCTCACCTCAGCCT	CCTGAGTAGGTGGAA	TTACAGATGCCGCC	ACCACACCCAGTTAA	TTTTTGTATTTTAG
5	LC3	CGGGCTCAAAGCGATT	CTCTCACCTCAGCCT	CCTGAGTAGGTGGAA	TTACAGATGCCGCC	ACCACACCCAGTTAA	TTTTTGTATTTTAG
6	LC4	CGGGCTCAAAGCGATT	CTCTCACCTCAGCCT	CCTGAGTAGGTGGAA	TTACAGATGCCGCC	ACCACACCCAGTTAA	TTTTTGTATTTTAG
1	NOC2	AAGAGATGGGGTTTC	TCCATGTTGCCAGG	CTGGTCTTGAACCTCC	TGGTCTCAAGTGATC	CGCCCGCCTCGGGCT	CCCAAAGTGCTGGGA
2	NL1	AAGAGATGGGGTTTC	TCCATGTTGCCAGG	CTGGTCTTGAACCTCC	TGGTCTCAAGTGATC	CGCCCGCCTCGGGCT	CCCAAAGTGCTGGGA
3	LC1	AAGAGATGGGGTTTC	TCCATGTTGCCAGG	CTGGTCTTGAACCTCC	TGGTCTCAAGTGATC	CGCCCGCCTCGGGCT	CCCAAAGTGCTGGGA
4	LC2	AAGAGATGGGGTTTC	TCCATGTTGCCAGG	CTGGTCTTGAACCTCC	TGGTCTCAAGTGATC	CGCCCGCCTCGGGCT	CCCAAAGTGCTGGGA

5	LC3	AAGAGATGGGTTTC	TCCATGTGGCCAGG	CTGGTCTTGAACCTCC	TGGTCTCAAGTGATC	CGCCCCCTCGGCCT	CCCAAAGTGCTGGGA	2094
6	LC4	AAGAGATGGGTTTC	TCCATGTGGCCAGG	CTGGTCTTGAACCTCC	TGGTCTCAAGTGATC	CGCCCCCTCGGCCT	CCCAAAGTGCTGGGA	2160
		2161	2175	2176	2190	2191	2205	2206
1	NOC2	TTACAGGTGTGAGCC	ACCGCACCCAAATCCT	ATTAGGTTCTTTGA	ATCCCCTCATGGCCT	GCCTGGTTTGCTC	AGCCTGTCTTCAGCT	1919
2	NL1	TTACAGGTGTGAGCC	ACCGCACCCAAATCCT	ATTAGGTTCTTTGA	ATCCCCTCATGGCCT	GCCTGGTTTGCTC	AGCCTGTCTTCAGCT	1977
3	LC1	TTACAGGTGTGAGCC	ACCGCACCCAAATCCT	ATTAGGTTCTTTGA	ATCCCCTCATGGCCT	GCCTGGTTTGCTC	AGCCTGTCTTCAGCT	2064
4	LC2	TTACAGGTGTGAGCC	ACCGCACCCAAATCCT	ATTAGGTTCTTTGA	ATCCCCTCATGGCCT	GCCTGGTTTGCTC	AGCCTGTCTTCAGCT	2130
5	LC3	TTACAGGTGTGAGCC	ACCGCACCCAAATCCT	ATTAGGTTCTTTGA	ATCCCCTCATGGCCT	GCCTGGTTTGCTC	AGCCTGTCTTCAGCT	2184
6	LC4	TTACAGGTGTGAGCC	ACCGCACCCAAATCCT	ATTAGGTTCTTTGA	ATCCCCTCATGGCCT	GCCTGGTTTGCTC	AGCCTGTCTTCAGCT	2250
		2251	2265	2266	2280	2281	2295	2296
1	NOC2	TGAGGAGCTGGGAAG	CTCTGGGGATGCTA	TGAACACTCACTTGCCTG	AAGAGCAGGGTTCAAG	GTGCATCCCCAGCCA	GGGCACCGTGGCTCCC	2009
2	NL1	TGAGGAGCTGGGAAG	CTCTGGGGATGCTA	TGAACACTCACTTGCCTG	AAGAGCAGGGTTCAAG	GTGCATCCCCAGCCA	GGGCACCGTGGCTCCC	2067
3	LC1	TGAGGAGCTGGGAAG	CTCTGGGGATGCTA	TGAACACTCACTTGCCTG	AAGAGCAGGGTTCAAG	GTGCATCCCCAGCCA	GGGCACCGTGGCTCCC	2154
4	LC2	TGAGGAGCTGGGAAG	CTCTGGGGATGCTA	TGAACACTCACTTGCCTG	AAGAGCAGGGTTCAAG	GTGCATCCCCAGCCA	GGGCACCGTGGCTCCC	2220
5	LC3	TGAGGAGCTGGGAAG	CTCTGGGGATGCTA	TGAACACTCACTTGCCTG	AAGAGCAGGGTTCAAG	GTGCATCCCCAGCCA	GGGCACCGTGGCTCCC	2274
6	LC4	TGAGGAGCTGGGAAG	CTCTGGGGATGCTA	TGAACACTCACTTGCCTG	AAGAGCAGGGTTCAAG	GTGCATCCCCAGCCA	GGGCACCGTGGCTCCC	2340

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3 LC1 TGGAAAGGGCCTTCTC TCCAAGGCTGGGAGCT CCTGGGGCCCCACCA TTCACTTTTGTCCT TGCTGCTGGCAAAACA GTAAAGAAACTCACT 2424
4 LC2 TGGAAAGGGCCTTCTC TCCAAGGCTGGGAGCT CCTGGGGCCCCACCA TTCACTTTTGTCCT TGCTGCTGGCAAAACA GTAAAGAAACTCACT 2490
5 LC3 TGGAAAGGGCCTTCTC TCCAAGGCTGGGAGCT CCTGGGGCCCCACCA TTCACTTTTGTCCT TGCTGCTGGCAAAACA GTAAAGAAACTCACT 2544
6 LC4 TGGAAAGGGCCTTCTC TCCAAGGCTGGGAGCT CCTGGGGCCCCACCA TTCACTTTTGTCCT TGCTGCTGGCAAAACA GTAAAGAAACTCACT 2610

2611 2625 2626 2640 2641 2655 2656
1 NOC2 TTCCCTGTGGCACGT TATGCTTCAGAATT AAA 2327
2 NL1 TTCCCTGTGGCACGT TATGCTTCAGAATT AAAATGAAGATT AAA 2385
3 LC1 TTCCCTGTGGCACGT TATGCTTCAGAATT AAAATGAAGATT AAA 2472
4 LC2 TTCCCTGTGGCACGT TATGCTTCAGAATT AAAATGAAGATT AAA 2538
5 LC3 TTCCCTGTGGCACGT TATGCTTCAGAATT AAAATGAAGATT AAA 2592
6 LC4 TTCCCTGTGGCACGT TATGCTTCAGAATT AAAATGAAGATT AAA 2658

Fig. 7

1 NOC2 MADTIEGSGNDQWVC PNDRQLALRAKLQTG WSVHTYQTEKQRKQ HLSPAEVEAILQVIQ RAERLDVLEQQRIGR LVERLETMRRNVMGN 90
2 NL1 MADTIEGSGNDQWVC PNDRQLALRAKLQTG WSVHTYQTEKQRKQ HLSPAEVEAILQVIQ RAERLDVLEQQRIGR LVERLETMRRNVMGN 90
3 LC1 MADTIEGSGNDQWVC PNDRQLALRAKLQTG WSVHTYQTEKQRKQ HLSPAEVEAILQVIQ RAERLDVLEQQRIGR LVERLETMRRNVMGN 90

6 LC2 PTEPAEREPRESSETS RIYTWARGRVSSDS DSDSDLSSSLEDRL PSTGVRDRKGDKPKWK ESGGSVEAPRMGFTQ PAGHLFGLQSSLASG 188

	271	285	286	300	301	315	316	330
1	NOC2	ETGTGSADPPGG--	-----PRPGLTRR	APVKDTPGRAPAADA	APAGPSSCLG			
2	NL1	ETGTGSADPPGGTG	SADPPGGPRPGLTRR	APVKDTPGRAPAADA	APAGPSSCLG	296		
3	LC1	ETGTGSADPPGGTG	SADPPGGPRPGLTRR	APVKDTPGRAPAADA	APAGPSSCLG	325		
4	LC2	ETGTGSADPPGGTG	SADPPGGPRPGLTRR	APVKDTPGRAPAADA	APAGPSSCLG	243		
5	LC3	-----	-----	-----	-----	210		
6	LC4	-----	-----	-----	-----	128		